

TITLE OF INVENTION

ELECTRICALLY CONDUCTIVE POLYMER FILMS

5

ABSTRACT OF THE DISCLOSURE

A self-supporting conductive polymer film having distributed therein an electrically conductive polymer composition containing linearly conjugated π -electron systems and residues of sulfonated lignin or a sulfonated polyflavonoid. The conductive polymer film preferably has a surface resistivity of from about 10^2 ohms per square to about 10^{10} ohms per square and is preferably formed from a liquid dispersion of thermoplastic polymer having the electrically conductive polymer composition distributed therein. In a preferred embodiment, heat sealable conductive fluoropolymer films are prepared.

10